

AMENDMENTS TO THE CLAIMS

This Listing of claims will replace all prior versions, and listings of claims in the application:

Claim 1 (currently amended): A method for establishing a *Drosophila* cell line comprising generating a *Drosophila* clipped *FRT* (cFRT) chromosome incapable of reacting with insensitive to a *P* transposase but capable of reacting with remaining functional to a yeast site-specific flippase recombinase (FLP), comprising steps of:

(a) obtaining a first *FRT* chromosome by causing a local and random transposition by exposing a *FRT* chromosome to said *P* transposase for occurring a local and imprecise transposition, wherein said *FRT* chromosome contains a *P*[*FRT*] insertion with a selection marker gene;

(b) obtaining a second *FRT* chromosome by screening for said first *FRT* chromosome lacking said selection marker gene *P*[*FRT*] insertion insensitive to said *P* transposase to obtain screened products;

(c) selecting a third *FRT* chromosome candidate products from said second *FRT* chromosome screened products by further examinations steps of:

c1) examining both recombination capability and homozygous viability of said second *FRT* chromosome and selecting said second *FRT* chromosome having high recombination capability and high homozygous viability; and

c2) examining recombination accessibility of said second *FRT* chromosome contained in a clipped *P*[*FRT*] insertion by the presence of said FLP wherein said third *FRT* chromosome is selected based on high recombination accessibility; and

(d) exposing said third *FRT* chromosome candidate products by to said *P* transposase and selecting a desired product by said further examinations to obtaining said *Drosophila* clipped *FRT* (cFRT) chromosome by said steps c1) and c2). is insensitive to said *P* transposase but remaining functional to yeast site-specific flippase recombinase.

Claims 2-11 (canceled)

Claim 12 (currently amended): The method according to claim 1, wherein said *Drosophila* cFRT chromosome exhibits the same phenotype as ~~remains to behave normally as a~~ a wild type chromosome ~~feasible for various genetic manipulations~~.

Claims 13-34 (canceled)

Claim 35 (new): A method for establishing a *Drosophila* cell line comprising a clipped FRT^{2L2R} (cFRT^{2L2R}) chromosome incapable of reacting with a *P* transposase but capable of reacting with a yeast site-specific flippase recombinase (FLP), comprising steps of:

(a) obtaining a first FRT chromosome by causing a local and random transposition by exposing a double FRT chromosome to said *P* transposase, wherein said double FRT chromosome contains a first P[FRT] insertion with a first selection marker gene on one arm thereof and a second P[FRT] insertion with a second selection marker gene on the other arm thereof;

(b) obtaining a second FRT chromosome by screening for said first FRT chromosome lacking said selection marker genes of said first P[FRT] insertion and said second P[FRT] insertion;

(c) selecting a third FRT chromosome from said second FRT chromosome by the steps of: (c1) examining both recombination capability and homozygous viability of said second FRT chromosome and selecting said second FRT chromosome having high recombination capability and high homozygous viability; and (c2) examining recombination accessibility of said second FRT chromosome contained in a clipped P[FRT] insertion by the presence of said FLP wherein said third FRT chromosome is selected based on high recombination accessibility; and

(d) exposing said third FRT chromosome to said *P* transposase and obtaining said *Drosophila* clipped FRT^{2L2R} (cFRT^{2L2R}) chromosome by said steps (c1) and (c2).